UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

MEMORANDUM

DATE:

September 27, 2016

SUBJECT:

Project Ceiling Increase Approval, Funding, and Exemption from the \$2

Million Statutory Limit to Continue the Removal Action at Fruitland Magnesium Fire Incident, Maywood, Los Angeles County, CA

FROM: Quasante, On-Scene Coordinator AM Emergency Response Section (SFD-9-2)

TO:

Enrique Manzanilla, Director

Superfund Division

THROUGH: Harry Allen, Chief

Emergency Response Section (SFD-9-2)

١. **PURPOSE**

The purpose of this Action Memorandum is to request and document your approval of (1) a change in the scope of the Fruitland Magnesium Fire Site ("Site") project, and (2) an increase of the project ceiling from \$1,620,000 to \$3,960,000 in direct extramural costs to mitigate threats to human health and the environment posed by uncontrolled hazardous substances (namely arsenic, cadmium, chromium, lead, and mercury) in ash, debris and soils associated with a fire-damaged industrial property located at 3570 Fruitland Avenue, Maywood, CA.

On June 16, 2016, the EPA On-Scene Coordinator (OSC) exercised delegated procurement authority to begin emergency stabilization and response actions. The United States Environmental Protection Agency ("EPA") approved the initial response action in the July 1, 2016 Request for a Time-Critical Removal Action at Fruitland Magnesium Fire Site (the "Action Memorandum"), included as Attachment C of this memorandum. The time-critical removal action is being taken pursuant to Section 104(a)(1) of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9604(a)(1), to mitigate threats to human health and the environment posed by the presence of heavy metals in residential properties in Maywood. The required exemption to spend more than \$2 million is justifiable under

the criteria of 40 C.F.R. § 300.415(b)(5)(i), which allows for an exemption from the statutory limitation on response costs when: 1) there is an immediate risk to public health or welfare or the environment; 2) continued response actions are immediately required to prevent, limit, or mitigate an emergency; and 3) such assistance will not otherwise be provided on a timely basis.

The actions proposed in this document will allow transition from on-going emergency removal and stabilization activities into necessary time-critical removal actions. As explained below, the additional funding requested in this memorandum is necessary for cleanup costs associated with the industrial property which is adjacent to the residential properties that were addressed during the initial emergency response/removal action.

II. SITE CONDITIONS AND BACKGROUND

Site Status: Non-NPL

Category of Removal: Time-Critical CERCLIS ID: CAN000903494

SITE ID: A9AP

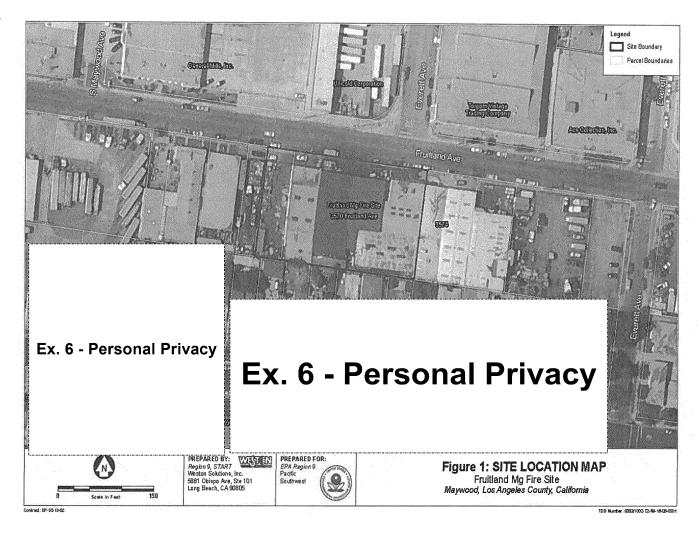
A. <u>Site Description</u>

1. Physical location

The Fruitland Magnesium Fire Incident (the "Site") is located at 3570 Fruitland Avenue, Maywood, Los Angeles County, CA (Latitude: 33.9961640, Longitude: -118.2011630). On the southern fence line of the Site is a residential neighborhood consisting of single family homes and apartment complexes. Light industry surrounds the Site in the other cardinal directions. See Figure 1 for a Site Location Map.

On June 14, 2016, at approximately 0200 hours, a fire started at the Panda International Trading Company (PIT). The fire at the PIT facility spread to the SOKOR Metals Company, both of which are located at 3570 Fruitland Ave. PIT collected and processed scrap metal and transported it out in bulk for recovery. SOKOR is a precious metals recovery operation that recovers precious metals from circuit boards and other electronics. Both facilities were heavily damaged in the fire.

Region 9 signed an Action Memorandum on July 1, 2016 to document the continuation of the response to the fire and in particular the removal residual ash from the street (Fruitland Ave and E 52nd Street, and segments of Everett and Maywood Avenues); assessment of the evacuated residential properties; decontamination of interior and exterior of impacted residential properties; removal of ash from impacted residential yards; and fencing, stabilization and mitigation measures at the PIT/SOKOR property.



ED_001052_00000435-00003

2. Site characteristics

As described above and outlined in the July 1, 2016 Action Memorandum, the initial scope of the Site included the exteriors and interiors of residential properties along E 52nd Street (both sides of the street). The July 1, 2016 Action Memorandum also included stabilization measures at the PIT and SOKOR Metals property. This updated Action Memorandum expands the scope of the response actions at the portion of the Site where the operations of the PIT and SOKOR Metals Company are located. The PIT and SOKOR Metals property is an industrial property which is located directly adjacent to residential properties. As shown in Figure 1, residential properties are located directly on the fence line of the industrial property. Sampling of ash, debris and soils at the industrial property has indicted the presence of hazardous materials in all of these media. While initial stabilization measures were implemented as an emergency measure, debris from the fire and PIT and SOKOR Metals operations remains on the Site. Residents continue to complain about the situation at this industrial property and have concerns regarding the impact of the Site to their health and welfare.

3. Removal site evaluation

On June 16, 2016, while the fire was burning, EPA dispatched the START contractor and directed the collection of air samples and ash profile samples. Relevant Contaminants of Concern (COCs) were detected in both media. On June 23, during the emergency response phase, START collected 3 ash samples, 4 debris samples, 2 powder samples and 4 soil samples on the industrial property. Due to the presence of piles of debris and issues with the structural stability of buildings on the Site, sampling was limited. Selected results from the samples are provided in the following table:

Contaminant	Regional Screening Levels (Residental/Industrial)	Haz Waste Threshold TTLC	Ash (n=3)	Debris (n=4)	Powder (n=2)	Soil (n=4)
Arsenic	68 / 300 (adj. 10⁴)	500	51.8 – 2,570	12.2 - 842	ND - 264	4.15 – <i>834</i>
Cadmium	71 / 980	100	6,950 – 23,200	807 – 37,500	1,360 34,400	136 – 1,210
Chromium	120,000 / 180,000	500	2.06 - 457	1.87 – 71.7	ND - 15.5	291 – <i>87,300</i>
Lead	400 / 800	1000	13,400 189,000	ND – <i>86,100</i>	0.142 – 1,300	ND – 63.1
Mercury	11 / 46	20	ND – 943	0.123 – <i>329</i>	6.35 – 2,170	ND – 2,020

Notes:

All units are in milligrams per kilogram (mg/kg)

Bold: Result above Regional Screening Level; Italics: Result above Haz Waste Threshold

In summary, these preliminary samples indicate exceedances of hazardous waste thresholds for selected COCs in ash, debris and powder grab samples. One exception is chromium which exceeds hazardous waste thresholds only in soil. Arsenic, cadmium, and mercury exceed industrial use risk-based Regional Screening Levels in soil samples. Arsenic, cadmium, lead, and mercury also exceed risk based thresholds

in ash, debris and powder. One result in soil also contained a concentration of 640 mg/kg of one PCB congener (Aroclor-1242). These results, while incomplete, document the presence of hazardous substances above waste and/or risk thresholds. They also suggest that the soil likely has additional contamination that will require further characterization.

In addition to this sampling event, EPA and START contractor conducted subsequent visits to the Site to plan removal activities. During the September 2, 2016, visit the team estimated quantities of contaminated debris, scrap metal and soil for removal. During this visit, the team documented the presence of ash, debris, drums, bulk containers, electronic waste, universal waste, and batteries.

4. Release or threatened release into the environment of a hazardous substance, or pollutant or contaminant

EPA's removal assessment documented the presence of hazardous substances including arsenic, mercury and heavy metals (cadmium, chromium, and lead) in ash, debris, powders and/or soils on Site. Laboratory analytical data has confirmed the presence of California Title 22 TTLC hazardous wastes. In addition there may be some PCB contamination in Site soils. Such hazardous wastes are "hazardous substances" as defined by Section 101(14) of CERCLA.

5. National Priorities List ("NPL") status

The Site is not currently on or proposed for inclusion on the NPL.

B. Other Actions to Date

On June 16, 2016, LA County Fire Health Hazmat Management Division (HHMD) requested EPA assistance in mitigation of the hazardous substances on the Site. EPA actions were performed consistent with the July 1, 2016 Action Memorandum. EPA participated in the emergency response action along with LA County Fire Heath HHMD and LA County Department of Public Health (DPH) in a Unified Command (UC). Actions included evaluation and cleanup of the residential properties along E 52nd Street and stabilization of the industrial property, as discussed above.

C. State and Local Authorities' Roles

1. State and local actions to date

LA County Fire HHMD and LA County DPH participated in the UC for the incident during the initial response and residential property cleanup. In earlier operational periods, CA Department of Toxic Substances Control (DTSC) was on Site to coordinate with the emergency response and conduct an investigation along with LA

County Fire HHMD. LA County Office of Emergency Services (OES) provided relocation support, along with support from a number of other county agencies.

2. Potential for continued state/local response

While support for relocation and residential personal property damage has been provided by county agencies, neither State nor local agencies have the resources to undertake the required hazardous waste removal at the industrial property at this time; however, solid waste removal assistance may become available. Representatives from State and local response organizations will continue to assist and coordinate with EPA in various tasks including data review, planning and community relations.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

Conditions at the Site exist which may pose an imminent and substantial endangerment to public health, and/or welfare, or the environment based on the factors set forth in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. § 300.415(b)(2). These factors include:

1. Actual or potential exposure to nearby populations, animals or the food chain from hazardous substances or pollutants or contaminants

There is an actual or potential exposure to nearby populations from hazardous substances at the Site. Ash, debris, powder and soils containing arsenic, mercury, PCBs and heavy metals have been identified on the industrial property. The property is bordered on one side by a residential area. This is the area impacted by ash during the fire event. Ash throughout the burn area also has not been fully stabilized or mitigated. Any person entering the fire damaged areas may be exposed to hazardous substances by direct contact with or inhalation of contaminated ash and debris. Nearby populations may be exposed to hazardous substances via direct contact and inhalation

Arsenic, cadmium, lead, and mercury are present above hazardous waste determination thresholds in contaminated media at the Site. Arsenic, cadmium and mercury exceed industrial use risk-based Regional Screening Levels in soil samples. Other hazardous substances or pollutants and contaminants not discovered to date or not specifically identified herein may exist at the Site. These substances may also pose a threat to human health and the environment.

Arsenic is toxic and is commonly used as a poison to control pests. Exposure can occur via airborne dust, drinking water, incidental ingestion of soil, and direct contact with contaminated soils. Arsenic affects the skin, the respiratory system, the kidneys, the liver, the central nervous system, the gastro-intestinal tract and the reproductive system, and is a possible teratogen. The EPA has determined that

inorganic arsenic is a known human carcinogen. Exposure for shorter periods of up to a year can result in several non-cancer adverse health effects. Low levels of arsenic can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, and damage to blood vessels. At high levels, inorganic arsenic can cause death.

Cadmium is a highly toxic heavy metal, especially by inhalation of dust or fume. Cadmium is a potential occupational carcinogen that targets the respiratory system, kidneys and blood. Cadmium poisoning can result in pulmonary edema, dyspnea (breathing difficulty), emphysema, anemia, nausea and vomiting. Cadmium is also flammable in powder form.

Lead is a heavy metal that bio-accumulates in human tissues. Short-term exposure to large amounts of lead can cause harmful effects on the nervous system, gastrointestinal system, kidneys, and circulatory system. Long-term exposure to low levels, such as those that occur in the work place, can cause damage to the central nervous system, kidneys, blood, gastrointestinal tract, and gingival tissues. Children are particularly sensitive to the chronic effects of lead, with slowed cognitive development, reduced growth and other effects. Lead exposure may result in loss of appetite, anemia, malaise, insomnia, headache, irritability, muscle and joint pains, tremors, hallucinations and distorted perceptions, muscle weakness, gastritis, and liver changes. The major organ systems affected are the nervous system, blood systems, and the kidneys. Low levels of lead impair neurotransmission and immune system functions and may increase systolic blood pressure. The effects of lead are the same whether it enters the body through breathing or swallowing. EPA has determined that lead is a probable human carcinogen.

Mercury is a natural occurring heavy metal which has several forms. The nervous system is very sensitive to all forms of mercury. Methylmercury and metallic mercury vapors are more harmful than other forms, because more mercury in these forms reaches the brain. Exposure to high levels of metallic, inorganic, or organic mercury can permanently damage the brain, kidneys, and developing fetus. Effects on brain functioning may result in irritability, shyness, tremors, changes in vision or hearing, and memory problems. Short-term exposure to high levels of metallic mercury vapors may cause effects including lung damage, nausea, vomiting, diarrhea, increases in blood pressure or heart rate, skin rashes, and eye irritation.

2. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate

Sampling results have documented the presence of heavy metals in ash, debris and soils on the Site. See Section A3 for a description of the hazardous substances present and their respective concentrations. The contaminated ash, debris and soils on the Site are located at the surface and could migrate, representing a direct exposure threat by contact or inhalation.

3. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released

Rain and/or winds may result in the off-site migration of contaminated soil and ash into surrounding residential properties, the street, storm sewers and the larger watershed.

4. Availability of other appropriate federal or state response mechanisms to respond to the release

LA County and DTSC have requested EPA assistance due to the size and scope of the impacted area. State and local resources are insufficient to conduct a response action at the Site at this time.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances, pollutants, and contaminants from this Site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed action description

The emergency phase of the removal action was focused on ensuring nearby residences were safe for re-occupancy and that further off-site migration of ash was minimized. As discussed above, contaminants which pose a threat still remain on the industrial property. EPA proposes to segregate the various types of materials at the Site including: solid wastes/debris, contaminated debris, and contaminated ash/soils at the Site. Solid wastes and contaminated debris will be evaluated to determine the most appropriate means of recycling or disposal. Contaminated ash and soils will be excavated in preparation for off-Site transportation and disposal. Limited characterization of the extent of surface/subsurface contamination at the Site has been conducted to date due to the occlusion of the ground surface by solid wastes and building debris. It is anticipated that additional hazardous wastes may be present and contingency costs have been built into the funding ceiling. Additional analytical data will be generated during the proposed removal for extent of contamination determinations, meeting cleanup goals, and waste characterization/profiling for acceptance at RCRA permitted disposal facilities.

Air monitoring and sampling will be performed in accordance with OSHA requirements during all phases of the removal action to protect both workers and nearby residents, especially when there is a potential for airborne releases of toxic air

contaminants. Operational controls such as dust containment and/or suppression will be used to abate fugitive dust emissions. Stabilization and/or removal of fire damaged structures will be performed in order to ensure the safety of site workers and the community. All activities will be performed in conformance with prescribed health and safety procedures. All sampling and analysis activities will conform to EPA approved methodologies and mandatory specifications for quality assurance and quality control. This removal will comply with the Off-Site Rule, 40 C.F.R. § 300.440.

2. Contribution to remedial performance

EPA does not anticipate a long term remedial action at this Site. This removal action should remove all immediate threats posed by uncontrolled hazardous substances at the Site.

The long-term cleanup plan for the Site:

Final reporting of this removal action will be provided to LA County Fire HHMD for consideration in any further activities under state or county programs.

Threats that will require attention prior to the start of a long-term cleanup:

The immediate threats that have been identified in this Action Memorandum will be addressed by the proposed removal action.

The extent to which the removal will ensure that threats are adequately abated:

The removal of abandoned and above ground hazardous substances is expected to abate the immediate threats from the Site.

Consistency with the long-term remedy:

As stated above, removal activities undertaken in this action will be considered and incorporated into state and county facility closure proceedings.

Post Removal Site Control:

The elimination of all threats identified for this removal action is expected to eliminate the need for post-removal Site control.

3. Applicable or relevant and appropriate requirements ("ARARs")

Section 300.415(j) of the NCP provides that removal actions must attain ARARs to the extent practicable, considering the exigencies of the situation.

Section 300.5 of the NCP defines <u>applicable requirements</u> as cleanup standards, standards of control, and other substantive environmental protection requirements, criteria or limitations promulgated under federal environmental or state environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location or other circumstances at a CERCLA site.

Section 300.5 of the NCP defines <u>relevant and appropriate</u> requirements as cleanup standards, standards of control and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that, while not "applicable" to a hazardous substance, pollutant, or contaminant, remedial action, location, or other circumstances at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site and are well-suited to the particular Site.

Because CERCLA on-site response actions do not require permitting, only substantive requirements are considered as possible ARARs. Administrative requirements such as approval of, or consultation with administrative bodies, issuance of permits, documentation, reporting, record keeping and enforcement are not ARARs for the CERCLA response actions confined to the Site.

The following ARARs have been identified for the proposed response action. All can be attained.

<u>Federal ARARs:</u> Potential federal ARARs are the RCRA Land Disposal Restrictions 40 C.F.R. Part 268, and the U.S. Department of Transportation of Hazardous Materials Regulations 49 C.F.R. Part 171, 172 and 173.

State ARARs: Potential state ARARs are the Characteristics of Hazardous Waste implemented through the California Health and Safety Code, Title 22, § 66261.20 and § 66261.21; and the South Coast Air Quality Management District Requirements Applicable to the Excavation and Handling of Contaminated Soil: SCAQMD Rule 401 - visible emissions, SCAQMD Rule 402 - nuisance dust, and SCAQMD Rule 403 - fugitive dust.

4. Project schedule

The residential phase of the response action was conducted from June 16, 2016 to July 11, 2016. The next phase of work is scheduled to begin in the fall of 2016 and proceed for approximately 6 weeks.

B. <u>Estimated Costs with Ceiling Increase</u>

Regional Removal Allowance Costs	Original Costs	Additional Costs	Total Costs
Cleanup Contractor	\$ 700,000	\$1,300,000	\$2,000,000

ERT/PST	\$ 150,000	\$ 150,000	\$ 300,000
START Contractor	\$ 500,000	\$ 500,000	\$1,000,000
Extramural Subtotal	\$1,350,000	\$1,950,000	\$3,300,000
20% Contingency	\$ 270,000	<u>\$ 390,000</u>	<u>\$ 660,000</u>
TOTAL, Removal Action Project Ceiling	\$1,620,000	\$3,900,000	\$3,960,000

VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Given the Site conditions, the nature of the hazardous substances documented on-site and the potential exposure pathways to nearby populations described in Sections II, III and IV above, actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response actions selected in this Action Memorandum, present an imminent and substantial endangerment to public health, or welfare, or the environment.

VII. OUTSTANDING POLICY ISSUES

There are no outstanding policy issues with the Site identified at this time.

VIII. ENFORCEMENT

Please see the attached Confidential Enforcement Addendum for a discussion regarding potentially liable parties and enforcement. In addition to the extramural costs estimated for the proposed action, a cost recovery enforcement action also may recover the following intramural costs:

Intramural Costs ¹	Original Cost	Additional Costs	Total Costs
U.S. EPA Direct Costs	\$ 60,000	\$ 100,000	\$ 160,000
U.S. EPA Indirect Costs (56.51% of \$3,960,000 +160,000)	\$ 949,368		<u>\$2,328,212</u>
Total Intramural Cost	\$1,009,368		\$2,488,212

3,960,000 + (56.51% of 3,960,000 + 160,000) = 6,448,212

¹ Direct costs include direct extramural costs and direct intramural costs. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of Site-specific direct costs, consistent with the full cost accounting methodology effective October 2, 2000. These estimates do not include pre-judgment interest, do not take into account other enforcement costs, including Department of Justice costs, and may be adjusted during the course of a removal action. The estimates are for illustrative purposes only and their use is not intended to create any rights for responsible parties. Neither the lack of a total cost estimate nor deviation of actual costs from this estimate will affect the United States' right to cost recovery.

The total EPA extramural and intramural costs for this removal action that will be eligible for cost recovery, based on full-cost accounting practices, are estimated to be \$6,448,212. Of this, an estimated \$3,960,000 comes from the Regional removal allowance.

IX. RECOMMENDATION

This decision document would commit additional funding to complete the response determined necessary for the Site. This response action was developed in accordance with CERCLA, is not inconsistent with the NCP, and is based on the Administrative Record for the Site.

Because conditions at the Site meet the NCP criteria for a time-critical removal and for exceeding the \$2 million statutory ceiling, I recommend that you concur on the determination of imminent and substantial endangerment and the removal action proposed in this Action Memorandum. The total removal action project ceiling if approved will be \$3,960,000 which comes from the Regional removal allowance. The requested additional extramural funding is \$2,340,000 from the Regional removal allowance. You may indicate your decision by signing below.

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	ue Manzanilla, Director rfund Division	•

Disapproved:			
•	Enrique Manzanilla, Director		Date
	Superfund Division	4	

Enforcement Addendum

Attachment A: Index to the Administrative Record

Attachment B: Selected Data Tables

Attachment C: Request for a Time Critical Removal Action the Fruitland Magnesium

Fire Site, July 1, 2016

Cc: Anne Berube, USEPA OECA Lee Tyner, USEPA OGC Elizabeth G. Berg, USEPA OGC Bcc: Site File

Harry Allen, SFD-9-2 Michelle Rogow, SFD-9-2

Craig Whitenack, CI

Rebekah Reynolds, ORC

Celeste Temple, SFD-9-4

Confidential Enforcement Addendum

Attachment A: Index to the Administrative Record

- 1. Ash and Soil Sampling Analytical Results, June, 2016 Fruitland Magnesium Incident
- 2. Air Sampling Analytical Results, outdoor air sample data June 2016, Fruitland Magnesium Incident
- 3. ATSDR ToxFAQ for Arsenic. CAS#:7440-38-2. August 2007.
- 4. ATSDR ToxFAQ for Cadmium. CAS#:7440-43-9. October 2012.
- 5. ATSDR ToxFAQ for Chromium. CAS#:7440-47-3. September 2008.
- 6. ATSDR ToxFAQ for Copper. CAS#:7440-50-8. Mach 2011.
- 7. ATSDR ToxFAQ for Lead. CAS#:7439-92-1. August 2007.
- 8. ATSDR ToxFAQ for Mercury. CAS#:7439-97-6. April 1999.
- 9. ATSDR ToxFAQ for Zinc. CAS#:7440-66-6. March 2011

Attachment B: Selected Data Tables

Table 8
Split Sample Analytical Results
Fruitland Magnesium Fire
Maywood, Los Angeles County, California

DRAFT - DO NOT REPRODUCE

	Regional Screening	Applicable	Field Sample ID:	MWF-Src-ASH-004	MWF-Src-ASH-005	MWF-Src-ASH-006	MWF-Sre-Debris-029	MWF-Sre-Debris-030
Parameters	Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016	6/23/2016	6/23/2016	6/23/2016
	Industrial)	Limits (TCLP, STLC, TTLC)	Laboratory Job Number:	16-06-1788	16-06-1788	16-06-1788	16-06-1788	16-06-1788
Total Metals / SW846-6010B / 7471A	on but the same of	i con la la constitución de la c	MEMBER 1	CONTROL CONTRO				
Aluminum	77,000 / 1,100,000		mg/kg	409	58.2	16.4	212	749
Antimony	31/470	500	mg/kg	ND (<0.1)	3.31	22.8	3.32	48.7
Arsenic	0.68 / 3.0	500	mg/kg	51.8	2,570	241	201	591
Barium ****	15,000 / 220,000	10,000	mg/kg	ND (<0.26)	0.382	ND (<0,248)	ND (<0.243)	ND (<0.15)
Beryllium	160 / 2,300	75	mg/kg	2.08	ND (<0.1)	41.9	0.382	18.6
Cadmium	71/980	100	mg/kg	12.500	6,950	23,200	28,000	807
Calcium	-		mg/kg	541	38,500	143	ND (<0.15)	ND (<0,1)
Chromium	120,000 / 1,800,000	500	mg/kg	457	45.9	2.06	71.7	2.29
Cobelt	23 / 350	8,000	mg/kg	1,540	3,990	806	11,100	391
Соррег	3,100 / 47,000	2,500	mg/kg	18,700	31,700	ND (<0.15)	ND (<0.1)	35.6
ron			mg/kg	2.76	1.510	7.83	0.695	10,2
ead	400 / 800	1,000	mg/kg	189,000	40,100	13,400	86,100	2,680
Magnesium			mg/kg	ND (<0.15)	ND (<0.15)	ND (<0.1)	1,9	2,68
Vanganese	1,800 / 26,000		mg/kg	1,760	11.8	ND (<0.0833)	116	44.9
Viercury	11/46	20	mg/kg	0.2	943	ND (<0.1)	0.123	0.284
lickel	840 / 12,000	2,000	mg/kg	148	4.96	ND (<0.1)	ND (<7.46)	ND (<7,25)
olessium			mg/kg	39	ND (<0,05)	31.5	ND (<0.15)	0.169
elenium	390 / 5,800	100	mg/kg	ND (<0,1)	1.78	0.222	8.01	0.0608
ülver	390 / 5,800	500	mg/kg	ND (<0.728)	ND (<0.765)	ND (<7.39)	ND (<0.75)	1.76
iodium	_	-	mg/kg	ND (<2.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<10)
hallium	0.78 / 12	700	mg/kg	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
/anadium	390 / 5,800	2,400	mg/kg	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<9.7)
Cine	23,000 / 350,000	5,000	mg/kg	ND (<9.7)	ND (<9.7)	ND (<9.7)	ND (<9.7)	ND (<9.7)
TLC Metals / SW846-6010B (T22.11.5.A1I)					hannan and a sale and a	harmonium samunda suum mid-ta aa a		
Uuminum		-	mg/L	0.864	1,140	4.45	772	652
Antimony		15	mg/L	0.778	2.49	1.12	2.42	23.2
Ansenic	-	5	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	0.357	0.594
3arium		100	mg/L	709	16.1	1.75	10,6	6.2
Beryllium		0.75	mg/L -	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)
Sadmium		1	mg/l.	0.612	0.53	ND (<0.1)	0.907	0.334
Calcium:		-	mg/L	141	56.1	23.4	1,100	605
Thromium		5	mg/L	ND (<0.1)	0.371	ND (<0.1)	3.76	4.43
obelt	-	80	mg/L	ND (<0.1)	1.91	ND (<0,1)	0.487	1.46
opper		25	mg/L	16.6	5.26	4.15	2.08	72.5
ron	-		mg/L	1.37	38,6	25.8	1,230	1,210
ead	-	5	mg/L	25.4	128	1.92	3.6	2,950
lagnesium		-	mg/L	3,680	1,160	33.1	88	66.9
langanese	**		mg/L	6.46	24.1	1.31	26,5	20.6
licket		20	mg/L	0.541	4.92	0.49	3.12	52.9
otassium			mg/L	1,650	143	9.68	65.8	33.6
elenium	-	1	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
ilver		5	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)
hallium	-	7	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
anadium	-	24	mg/L	ND (<0.1)	0.12	ND (<0.1)	0,573	0.393
inc		250	mg/L	322	61.1	50.7	256	175

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Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Maywood, Los Angeles County, California

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	Regional Screening	Applicable	Field Sample ID:	MWF-Src-ASH-004	MWF-Src-ASH-005	MWF-Sre-ASH-906	MWF-Src-Debris-029	MWF-Src-Debris-030
Parameters	Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016	6/23/2016	6/23/2016	6/23/2016
I SINUS (CIS	Industrial	Limits (TCLP,	Laboratory Job	16-06-1788	16-06-1788	16-06-1788	16-96-1788	16-06-1788
		STLC, TTLC)	Number:				10-00-1700	10-00-1705
TCLP Metals / SW846-6010B (1311)	MANUS MA	ç	ommonimistry de la company	nice and the same of the same	principality	pronounce of the second	of order of the contract of th	
Aluminum			mg/L	ND (<0.5)	118	0.536	3,07	60.9
Antimony			mg/L	ND (<0.15)	ND (<0.15)	0.349	ND (<0.15)	0.496
Arsenic	-	5	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0,1)	0.291
Barium		100	mg/L	420	16.3	ND (<1)	1.28	1.98
Beryllium		-	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)
Cadmium			mg/L	ND (<0.1)	0.194	ND (<0,1)	ND (<0.1)	0.116
Calcium		-	mg/ī.	71.9	24.4	10.8	326	267
Chromium		5	mp/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.118
Cobalt			mg/L,	ND (<0.1)	3.31	ND (<0.1)	ND (<0,1)	0.269
Copper			mg/L	1.36	22.8	1.42	ND (<0.1)	26.1
fron		-	mg/L	ND (<1)	3.32	ND (<1)	41.9	73
Lead		5	mg/L	ND (<0.1)	48.7	0.63	0.382	218
Magnesium			mg/L	941	399	8.34	18.6	23.7
Manganese		-	mg/L	ND (<0.05)	4.38	0.693	3.99	6,06
Nickel			mg/L	ND (<0.1)	1.1	0.213	0.379	7.18
Potassium			mg/L	782	63.9	ND (<5)	21.2	15
Selenium		1	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
Silver		5	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)
Thallium		-	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
Vanadium			mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)
Zine			mg/L	1.52	14.7	23.8	36.1	53.4
PCBs / SW846-8082	******************************	раничения		***************************************		2	NAME OF THE OWNER OWNER OF THE OWNER OWNE	
Aroclor 1016	4,100 / 27,000		μg/kg	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
Aroelor 1221	200 / 830		µg/kg	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
Aroelor 1232	170 / 720		µе∕ке	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
Arocker 1242	230 / 950	-	µg∕kg	620	180	ND (<990)	ND (<980)	ND (<200)
Aroclor 1248	230 / 950		µд∕кд	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
Aroclor 1254	240 / 970	-	µg/kg	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
Aroclor 1260	240 / 990		рд∕кд	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
Aroclor 1262			µg/kg	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
Aroclor 1268			µg∕kg	ND (<50)	ND (<50)	ND (<990)	ND (<980)	ND (<200)
SVOCs / SW846-8270C	www.purawareawanamamamamamamamamamamamamamamamamamam	/		midden or on the first of the f		-	~~~~	
1,2,4-TRICHLOROBENZENE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
1,2-DICHLOROBENZENE		-	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
1,3-DICHLOROBENZENE		-	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
1,4-DICHLOROBENZENE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
I-METHYLNAPHTHALENE			mp/kg	ND (<0.5)	-ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
2,4,5-TRICHLOROPHENOL		_	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
2,4,6-TRICHLOROPHENOL		-	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
2,4-DICHLOROPHENOL			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
2,4-DIMETHYLPHENOL			mg∕kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
2,4-DINITROPHENOL			mg/kg	ND (<2.5)	ND (<2.5)	ND (<49)	ND (<50)	ND (<50)
2,4-DINITROTOLUENE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
2,6-DICHLOROPHENOL			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
2,6-DINITROTOLUENE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)

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Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Maywood, Los Angeles County, California

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Regional Screening	Applicable	Field Sample ID:	MWF-Sre-ASH-004	MWF-Sre-ASH-005	MWF-Sre-ASH-006	MWF-Src-Debris-029	MWF-Src-Debris-030
Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016	6/23/2016	6/23/2016	6/23/2016
Industrial)	STLC, TTLC)	Laboratory Job Number:	16-06-1788	16-06-1788	16-06-1788	16-06-1788	16-06-1788
		mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
		mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
		mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
		mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9,9)
		mp/kg	ND (<0,5)	ND (<0.5)			ND (<9.9)
		mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)		ND (<9.9)
		mg/kg	ND (<10)	ND (<10)	ND (<190)		ND (<200)
		mg/kg	ND (<0.5)	ND (<0.5)			ND (<9.9)
		mg/kg		ND (<0.5)			ND (<9,9)
		mg/kg	ND (<2.5)	ND (<2.5)			ND (<50)
		mg/kg	ND (<0.5)	ND (<0,5)			ND (<9.9)
		mg/kg	ND (<0.5)				ND (<9.9)
	-	mg/kg	ND (<0.5)	ND (<0.5)			ND (<9.9)
							ND (<9.9)
		mg/kg	ND (<0.5)	ND (<0.5)			ND (<9.9)
		mg/kg					ND (<9,9)
	-						ND (<9.9)
							ND (<9.9)
<u> </u>							ND (<9.9)
1							ND (<9,9)
							ND (<9.9)
	~						ND (<200)
1	~~						ND (<9.9)
1							ND (<9.9)
†							ND (<9.9)
							ND (<9.9)
							ND (<9.9)
250,000 / 3,300,000							ND (<50)
							ND (<9.9)
							ND (<9.9)
							ND (<50)
							ND (<9.9)
							58
							ND (<9.9)
							ND (<9.9)
							ND (<9.9)
							ND (<9.9) ND (<9.9)
							ND (<9.9)
†							ND (<9.9)
1							ND (<9.9)
4 700 / 70 000							ND (<9.9)
1,7007 70,000							ND (<9.9)
 		mg/kg	ND (<0.5)	ND (<0.5) ND (<0.5)	ND (<9.7) ND (<9.7)	ND (<9.9) ND (<9.9)	ND (<9.9) ND (<9.9)
	Level (Residential / Industrial) 250,000 / 3,300,000	Regional Screening Serenting Serenti	Regional Serenting Serenting Sample Date: Laboratory Job Number: Maybe M	Regional Serential Level (Residential / Industrial) Serenting Lants (TCLP, STLC, TTLC) STLC, TTLC, TTLC) STLC, TTLC, TTLC) STLC, TTLC, TTLC, TTLC) STLC, TTLC,	Regents Seventing Laboratory Job Struct CLP STLC, TTLC STLC, S	Servening Limits (TCL) Limits	Legion Serventing Limits (TCLP, Industrial) Excepting Except

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Table 8 Split Sample Analytical Results Fruitland Maguesium Fire Maywood, Los Angeles County, California

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	Regional Screening	Applicable	Field Sample ID:	MWF-Sre-ASH-004	MWF-Src-ASH-005	MWF-Src-ASH-006	MWF-Src-Debris-029	MWF-Sre-Debris-030
	Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016	6/23/2016	6/23/2016	6/23/2016
Parameters	Industrial)	Limits (TCLP, STLC, TTLC)	Laboratory Job Number:	16-06-1788	16-06-1788	16-06-1788	16-06-1788	16-06-1788
HEXACHLOROETHANE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
INDENO(1,2,3-CD)PYRENE		-	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
ISOPHORONE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	16	ND (<9.9)
NAPHTHALENE	_	-	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
NITROBENZENE		-	mg/kg	ND (<2.5)	ND (<2.5)	ND (<49)	ND (<50)	ND (<50)
N-NITROSODIMETHYLAMINE		-	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
N-NITROSO-DI-N-PROPYLAMINE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
N-NITROSODIPHENYLAMINE	1	_	mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
PENTACHLOROPHENOL		_	mg/kg	ND (<2.5)	ND (<2.5)	ND (<49)	ND (<50)	ND (<50)
PHENANTHRENE			mg/kg	ND (<0.5)	ND (<0.5)	12	ND (<9.9)	ND (<9,9)
PHENOL	19,000 / 250,000		mg/kg	1	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
PYRENE		_	mg/kg	ND (<0.5)	·ND (<0,5)	ND (<9.7)	ND (<9,9)	ND (<9.9)
PYRIDINE			mg/kg	ND (<0.5)	ND (<0.5)	ND (<9.7)	ND (<9.9)	ND (<9.9)
Dioxins / Furana / SW846-8290A		harran mari	ommune and in the commune of	· · · · · · · · · · · · · · · · · · ·	Annual Control of the	<u> </u>	description of the same of the	1101-3.3/
1,2,3,4,6,7,8-Heptachlorodibenzofuran		_	ng/kg	427	101	614	52.9	211
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin			ng/kg	625	127	599	164	291
1,2,3,4,7,8,9-Heptachlorodibenzofuran	-1.1.	_	ng/kg	75.1	21,4	72.6	ND (<4,84)	ND (<35.7)
1,2,3,4,7,8-Hexachlorodibenzofuran		-	ng/kg	127	42	351	ND (<4.84)	40.2
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin			ng/kg	34.1	10.1	139	ND (<4.84)	ND (<35.7)
1,2,3,6,7,8-Hexachlorodibenzofuran		-	ng/kg	101	46.3	324	6.23	39
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin		_	ng/kg	77.5	18.7	166	8.9	ND (<35,7)
1,2,3,7,8,9-Hexachlorodibenzofuran			пр/кр	49.8	20.5	83	ND (<4.84)	ND (<35.7)
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin			ng/kg	61.3	15.4	144	6.24	ND (<35.7)
1,2,3,7,8-Pentachlorodibenzofuran			ng/kg	63	55.7	271	ND (<4.84)	ND (<35.7)
1,2,3,7,8-Pentachlorodibenzo-p-dioxin			ng/kg	40.2	12.2	233	ND (<4.84)	ND (<35.7)
2,3,4,6,7,8-i lexachlorodibenzofuran			ng∕kg	121	41.4	289	9.36	56
2,3,4,7,8-Pentachlorodibenzofuran		-	ng/kg	103	65.5	437	7.86	41.6
2,3,7,8-Tetrachlorodibenzofuran			ng/kg	60.4	33.2	219	2.3	9.22
2,3,7,8-Tetrachlorodibenzo-p-dioxin			пр/кр	10.9	2.36	51.8	ND (<0.967)	ND (<7.14)
Octachlorodibenzofuran (OCDF)			ng/kg	477	77.7	198	92.7	279
Octachlorodibenzo-p-dioxin (OCDD)			ng/kg	1,340	228	530	1,320	2,910

Notes:

Bold results exceed applicable limits for characteristic hazardous wastes ND (×X) = constituents(s) not detected at or above method detection limit mg/kg = miligram per kilogram ng/kg = microgram per kilogram ng/kg = nanogram per kilogram ng/L = miligram per liter + *** = excludes barium sulfate Q = Estimated Maximum Possible Concentration

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Table 8 Split Sample Analytical Results Fruitland Magaesium Fire Maywood, Los Angeles County, California

DRAFT - DO NOT REPRODUCE

	Regional Screening	Applicable	Field Sample ID:	MWF-Src-Debris-031	MWF-Src-Debris-032	MWF-Src-Powder-001	MWF-Sre-Powder-002	MWF-Sre-Soil-003
Parameters	Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016	6/23/2016	6/23/2016	6/23/2016
	Industrial)	Limits (TCLP, STLC, TTLC)	Laboratory Job Number:	16-06-1788	16-06-1788	16-06-1788	16-06-1788	16-06-1788
Total Metals / SW846-6010B / 7471A	***************************************		(48 lubel)		L			
Numinum	77,000 / 1,100,000		mg/kg	ND (<0.15)	ND (<0.1)	1.52	118 I	ND (<0.15)
Antimony	31/470	500	mg/kg	52.6	5.02	3.32	1.1	63.9
Armenie	0.68 / 3.0	500	mg/kg	842	12,2	264	ND (<0.1)	4,15
Barium ****	15,000 / 220,000	10,000	mg/kg	ND (<0.1)	23.8	3.07	ND (<0.15)	ND (<0.1)
3eryllium	160 / 2,300	75	mg/kg	3.99	ND (<0,518)	0.379	21.2	ND (<0.15)
Cadmium	71/980	100	mg/kg	5,190	37,500	34,400	1,360	1,210
Calcium	**		mg/kg	53.4	40.5	ND (<0.15)	0.11	ND (<0.1)
Ibromium	120,000 / 1,800,000	500	mg/kg	1.87	51.1	15.5	ND (<0.15)	36,800
Cobalt	23 / 350	8,000	mg/kg	6,180	230	396	0.64	228
Copper	3,100 / 47,000	2,500	mg/kg	0.886	0.393	1,17	ND (<0.1)	0,239
ron		-	mg/kg	30.4	ND (<0.15)	305,000	11,000	750
ead	400 / 800	1,000	mg/kg	0,553	ND (<1)	0.142	1,300	2.13
Augnesium			mg/kg	ND (<0.15)	4.93	0.132	0.438	196
Aanganese	1,800 / 26,000		mg/kg	ND (<0.05)	ND (<0,15)	0.144	243	2.21
Aereury	11/46	20	mg/kg	2.94	329	6.35	2.170	1,500
lickel	840 / 12,000	2,000	mg/kg	ND (<0.781)	ND (<0.739)	ND (<0.743)	ND (<0.728)	ND (<0.765)
otassium			mg/kg	140	1.24	ND (<0.15)	ND (<0.15)	ND (<0.1)
clenium	390 / 5,800	100	mg/kg	1,340	610	3,470	1,350	178
ilver ,	390 / 5,800	500	mg/kg	34,8	6.54	26.9	9,110	6,630
odium	-		mg/kg	ND (<2.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
hallium	0.78 / 12	700	mp/kg	ND (<2,5)	ND (<0.5)	ND (<10)	ND (<0.5)	ND (<0.5)
anadium	390 / 5,800	2,400	mg/kg	ND (<9.7)	ND (<9.7)	ND (<9.7)	ND (<9.7)	ND (<9.7)
inc	23,000 / 350,000	5,000	mg/kg	ND (<9.7)	ND (<9.9)	ND (<50)	ND (<9.9)	ND (<9.9)
TLC Metals / SW846-6010B (T22.11.5.AII)		terroren in terroren y	······································	······································	hamman and the contraction of th		1	101-0.0/
lluminum			mg/L	378	171	75.7	177	463
Intimony		15	mg/L	2.15	5,1	2.24	0.166	3.01
rsenic	-	5	mg/L	0.185	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
arium		100	mg/L	5.97	7.46	1.17	0.137	4.93
eryllium		0.75	mg/L	ND (<0,1)	ND (<0.1)	ND (<0.1)	0.201	0.132
admium		1	mg/L	18.2	1.71	0,239	ND (<0.1)	0.438
'alcium			mg/L	1,080	1,210	1,100	27.3	196
hromium		5	mg/L	1.98	0.966	0.853	0,193	1.89
obalt		80	mg/L	0.766	0.823	0.625	ND (<0,1)	0.84
opper		25	mg/L	0.559	2.95	5.16	0.553	0.441
on		-	mg/L	457	396	125	23	441
cad	-	5	mg/L	45,9	33.4	2.76	0.236	6.94
lagnesium		-	mg/L	210	454	1,510	2,250	1,760
langanese		••	mg/L	7.93	6.74	7.83	9.7	11.8
ickel		20	mg/L	1.87	2,06	10.2	0.209	1.6
oransium		-	mg/L	51.1	57.9	30.4	148	116
elemum	-	1	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
ilver		5	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)
hallium		7	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
anodium	99	24	mg/L	0.363	0.207	0.18	ND (<0.1)	0.144
inc		250	mg/L	167	140	135	6.95	243

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Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Maywood, Los Angeles County, California

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	Regional Screening	Applicable	Field Sample ID:	MWF-Src-Debris-031	MWF-Sre-Debris-032	MWF-Src-Powder-001	MWF-Src-Powder-002	MWF-Src-Soll-00;
Parameters	Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016	6/23/2016	6/23/2016	6/23/2016
1 313223333	Industrial)	Limits (TCLP, STLC, TTLC)	Laboratory Job	16-06-1788	16-06-1788	16-06-1788	16-06-1788	16-06-1788
CLP Metals / SW846-6010B (1311)		BILC, IILC)	Number:					
luminum		**	mg/L	40,5	2.32	0.886	13.9	2.68
ntimony			mg/L	ND (<0.15)	. 0.474	0.393	ND (<0.15)	0.169
raeruc	-	5	rng/L	0.11	ND (<0.1)	0.131	ND (<0.1)	ND (<0.1)
srium		100	mg/L	1.73	1.59	ND (<1)	ND (<1)	2.4
eryllium		-	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0,1)	ND (<0.1)
admium		1	mg/L	3.73	0.441	ND (<0.1)	ND (<0.1)	ND (<0.1)
elcium			mg/L	312	529	1,300	15.9	74.7
hromium		5	mg/L	0.17	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)
obalt			mg/L	0.126	0.144	ND (<0.1)	ND (<0.1)	ND (<0.1)
opper			mg/L	0.775	0.188	0.43	0.471	0.247
on			mg/L	96.1	18.6	ND (<1)	ND (<1)	1.06
on cad		5	mg/L	2.08	0.64	0.316	0.142	0.755
lagnesium			mg/L	71.7	228	576	1,300	612
langanese			mg/L	2.29	1.78	0.695	2.13	2.4
ickel			mg/L	0.32	0.328	0.971	ND (<0.1)	ND (<0.1)
planium			mg/L	15.5	21.6	15.6	63.1	44.9
lenium		1	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)
lver		5	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)
hallium			mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.15)	ND (<0.05)
anadium			mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.19)
ine			mg/L	85.7	. 35.6	1.34	1.9	2.21
CBs / SW846-8082		discourance of the same of the	arth 12	V9.1		1.54	1.3	£.6.3
roclor 1016	4,100 / 27,000		μ ε/ κε	ND (<990)	ND (<980)	ND (<50)	ND (<990)	ND (<980)
roclor 1221	200 / 830		μg/kg	ND (<990)	ND (<980)	ND (<50)	ND (<990)	ND (<980)
roclor 1232	170 / 720		μg/kg	ND (<990)	ND (<980)	ND (<50)	ND (<990)	ND (<980)
roclor 1242	230 / 950		μg/kg	ND (<990)	ND (<980)	ND (<50)	ND (<990)	
roclor 1242	230 / 950		hB/g	ND (<990)	ND (<980)	ND (<50)	ND (<990)	640,000
rocior 1254	240 / 970		<u>ид∕кд</u>	ND (<990)	ND (<980)	ND (<50)	ND (<990)	ND (<980)
roctor 1254	240 / 990		μg/kg	ND (<990)	ND (<980)	ND (<50)	ND (<990)	ND (<980)
roclor 1262	1 277.77		μ ρ/kg	ND (<990)	ND (<980)	ND (<50)	ND (<990)	ND (<980)
roctor 1268			μ ρ/kg	ND (<990)	ND (<980)	ND (<50)	ND (<990)	ND (<980)
VOCs / SW846-8270C			The state of the s	140 (2990)	1 (40)/300)	140 (20)	I (AD (ABA0)	ND (<980)
2,4-TRICHLOROBENZENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	10.4.00
2-DICHLOROBENZENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
3-DICHLOROBENZENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
4-DICHLOROBENZENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
METHYLNAPHTHALENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
4,5-TRICHLOROPHENOL			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
4.6-TRICHLOROPHENOL			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7) ND (<9.7)	ND (<9.9)
-DICHLOROPHENOL			mg/kg mg/kg	ND (<9.9)	, ND (<9.7)	ND (<2.5)	ND (<9.7) ND (<9.7)	ND (<9.9)
I-DIMETHYLPHENOL				ND (<9.9)	ND (<9.7) ND (<9.7)	ND (<2.5) ND (<2.5)		ND (<9.9)
I-DIMETHYLPHENOL I-DINITROPHENOL			mg/kg	ND (<9.9)	ND (<9.7) ND (<49)		ND (<9.7)	ND (<9.9)
I-DINITROPHENOL I-DINITROTOLUENE		**	mg/kg	ND (<50)	ND (<49) ND (<9.7)	ND (<13) ND (<2.5)	ND (<49)	ND (<50)
			mg/kg	ND (<9.9)			ND (<9.7)	ND (<9.9)
6-DICHLOROPHENOL			mg/kg		ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
-DINITROTOLUENE			mg/kg	ND (<9.9) Page 6 of 12	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)

Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Isywood, Los Angeles County, California

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Maywood, Los Angeles County, California									
Parameters	Regional Screening	Applicable Screening	Fleid Sample ID:	MWF-Src-Debris-031 6/23/2016	MWF-Src-Debris-032 6/23/2016	MWF-Src-Powder-001 6/23/2016	MWF-Src-Powder-002 6/23/2016	MWF-Sre-Soil-003 6/23/2016	
	Level (Residential /		Sample Date:						
	Industrial)	Limits (TCLP, STLC, TTLC)	Laboratory Job . Number:	16-06-1788	16-06-1788	16-06-1788	16-06-1788	16-06-1788	
CHI.ORONAPHTHALENE			mg/kg	ND (<9.9)	ND (<9,7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
CHILOROPHENOL			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
METHYLNAPHTHALENE		-	mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
METHYLPHENOL		-	mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
-NITROANILINE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
-NITROPHENOL		-	mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
3'-DICHLOROBENZIDINE			mg/kg	ND (<200)	ND (<190)	ND (<50)	ND (<190)	ND (<200)	
4-METHYLPHENOL			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
NITROANILINE		_	mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)		
6-DINITRO-2-METHYLPHENOL			mg/kg	ND (<50)	ND (<49)	ND (<13)	ND (<49)	ND (<9.9)	
BROMOPHENYL-PHENYLETHER			mg/kg	ND (<9.9)	ND (<9,7)	ND (<2.5)		ND (<50)	
CHLORO-3-METHYLPHENOL			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5) ND (<2.5)	ND (<9.7)	ND (<9.9)	
CHLOROANILINE			mg/kg	ND (<9.9)	ND (<9.7) ND (<9.7)	ND (<2.5) ND (<2.5)	ND (<9.7)	ND (<9.9)	
CHLOROPHENYL-PHENYLETHER			mg/kg	ND (<9.9)	ND (<9.7) ND (<9.7)		ND (<9.7)	ND (<9.9)	
NITROANILINE			mg/kg	ND (<9.9)		ND (<2.5)	ND (<9.7)	ND (<9.9)	
NITROPHENOL				ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
CENAPITHENE			mg/kg.		ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
CENAPHTHYLENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
NILINE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	18	
NTHRACENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	NO (<9.7)	ND (<9.9)	
ZOBENZENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
ENZIDINE ENZIDINE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
			mg∕kg	ND (<200)	ND (<190)	ND (<50)	ND (<190)	ND (<200)	
ENZO(A)ANTHRACENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
ENZO(A)PYRENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
ENZO(B)FLUORANTHENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
ENZO(G.H.DPERYLENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	NO (<9.7)	ND (<9.9)	
ENZO(K)FLUORANTHENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
ENZOIC ACID	250,000 / 3,300,000		mg/kg	ND (<50)	ND (<49)	ND (<13)	ND (<49)	ND (<50)	
ENZYL ALCOHOL			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
IS(2-CHLOROETHOXY)METHANE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
s(2-chloroethyi)ether			mg/kg	ND (<50)	ND (<49)	ND (<13)	ND (<49)	ND (<50)	
S(2-CHLOROISOPROPYL)ETHER			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
S(2-ETHYLHEXYL)PHTHALATE		-	mg/kg	120	98	13	ND (<9.7)	87	
ıtylbenzyiphthalate			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
IRYSENE		-	mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
BENZ(A.II)ANTHRACENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
BENZOFURAN			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
ethylphthalate			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
methylphthalate			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
-N-BUTYL PITTHALATE			mg/kg	ND (<9.9)	33	3.5	ND (<9.7)	ND (<9.9)	
-N-OCTYL PHTHALATE	1		mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)		
UORANTHENE			mg/kg	ND (<9.9)	ND (<9.7)			ND (<9.9)	
JUORENE	4,700 / 70,000		mg/kg	ND (<9.9)		ND (<2.5)	ND (<9.7)	ND (<9.9)	
EXACHLOROBENZENE	7,1007.70,000			ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	14	
EXACILOROBUTADIENE	 	_==	mg/kg		ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)	
EXACHLOROCYCLOPENTADIENE			mg/kg mg/kg	ND (<9.9) ND (<50)	ND (<9.7) ND (<49)	ND (<2.5) ND (<13)	ND (<9.7) ND (<49)	ND (<9.9) ND (<50)	

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Table 8 Split Sample Analytical Results
Fruitland Magnesium Fire
Maywood, Los Angeles County, Califòrnia DRAFT - DO NOT REPRODUCE

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	Regional Screening	Applicable	Field Sample ID:	MWF-Src-Debris-031	MWF-Sre-Debris-032	MWF-Src-Powder-001	MWF-Sre-Powder-002	MWF-Src-Soil-003
	Level (Residential /	Screening	Sample Date:	6/23/2916	6/23/2016	6/23/2016	6/23/2016	6/23/2016
	Industrial)	Limits (TCLP,	Laboratory Job	16-06-1788	16-06-1788	16-06-1788	16-06-1788	16-06-1788
		STLC, TTLC)	Number:					10-00-1788
HEXACHLOROETHANE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
INDENO(1,2,3-CD)PYRENE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
ISOPHORONE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
NAPHTHALENE	-	_	mg/kg	ND (<9.9)	NO (<9.7)	ND (<2.5)	ND (<9.7)	32
NITROBENZENE		_	mg/kg	ND (<50)	ND (<49)	ND (<13)	ND (<49)	ND (<50)
N-NITROSODIMETHYLAMINE		-	mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
N-NITROSO-DI-N-PROPYLAMINE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
N-NITROSODIPHENYLAMINE	1	-	mg/kg	ND (<9.9)	ND (<9.7)	ND (<2,5)	ND (<9.7)	ND (<9.9)
PENTACHLOROPHENOL		-	mg/kg	ND (<50)	ND (<49)	ND (<13)	ND (<49)	ND (<50)
PHENANTURENE	i		mg/kg	ND (<9.9)	ND (<9.7)	2.5	ND (<9.7)	27
PHENOL	19,000 / 250,000	-	mg/kg	ND (<9.9)	ND (<9.7)	3.1	ND (<9.7)	19
PYRENE	1		mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
PYRIDINE			mg/kg	ND (<9.9)	ND (<9.7)	ND (<2.5)	ND (<9.7)	ND (<9.9)
Dioxins / Furans / SW846-8290A	A	***************************************		The state of the s				140 (10.5)
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1	T =	ng∕kg	859	1.030	7.71	ND (<4.96)	318
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin		l -	ng/kg	272	360	6,03	ND (<4.96)	434
1,2,3,4,7,8,9-Heptachlorodibenzofuran		_	ng/kg	202	278	ND (<4.99)	ND (<4.96)	49.1 O
1,2,3,4,7,8-Hexachlorodibenzofuran		_	ng/kg	326	435	ND (<4.99)	ND (<4.96)	91.5
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin		_	ng/kg	15.3 Q	27.8 Q	ND (<4,99)	ND (<4.96)	ND (<48.1)
1,2,3,6,7,8-Hexachlorodibenzofuran			ng/kg	412	529	ND (<4.99)	ND (<4.96)	79.5
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin		-	ng/kg	30.7	53.5	ND (<4.99)	ND (<4,96)	ND (<48.1)
1,2,3,7,8,9-Hexachlorodibenzofuran	.,	-	ng/kg	166	201	ND (<4.99)	ND (<4.96)	ND (<48.1)
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin			ng/kg	25.5 Q	43.7	ND (<4,99)	ND (<4.96)	ND (<48.1)
1,2,3,7,8-Pentachlorodibenzofuran		-	ng/kg	358	468	ND (<4.99)	ND (<4.96)	56.8
1,2,3,7,8-Pentachlorodibenzo-p-dioxin		-	ng/kg	19.9	36.8	ND (<4.99)	ND (<4.96)	ND (<48.1)
2,3,4,6,7,8-Hexachlorodibenzofuran			ng/kg	376	457	ND (<4.99)	ND (<4,96)	105
2,3,4,7,8-Pentachlorodibenzofuran			ng/kg	356	624	ND (<4.99)	ND (<4.96)	135
2,3,7,8-Tetrachlorodibenzofuran			ng∕kg	167	216	1.12	ND (<0.991)	54.7
2,3,7,8-Tetrachlorodibenzo-p-dioxin		-	ng/kg	5.32	9,03	ND (<0.998)	ND (<0.991)	ND (<9.62)
Octachlorodibenzofuran (OCDF)			ng/kg	539	672	ND (<9.98)	ND (<9.91)	306
Detachlorodibenzo-p-dioxin (OCDD)			ng/kg	1,310	1,160	ND (<9.98)	11.3	1,400

Notes:

Bold results exceed applicable limits for characteristic hazardous wastes

ND (<0) = constituents(s) not detected at or above method detection limit
mg/kg = miligram per kilogram
ng/kg = nainogram per kilogram

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Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Maywood, Los Augeles County, California

	Regional Screening	Applicable	Field Sample ID:	MWF-Sre-Soil-026	MWF-Sre-Soil-027	MWF-Sre-Soll-028	
Parameters	Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016	6/23/2016	
	Industrial	Limits (TCLP,		16-06-1788	16-06-1788	16-06-1788	
		STLC, TTLC)	Namber:	10-04-1/00	10-00-1788	10-00-1788	
Total Metals / SW846-6010B / 7471A		yeconomic	pania		permanent programment of the second s		
Vurninum	77,000 / 1,100,000		mg/kg	ND (<0.1)	16.3	ND (<0.1)	
Antimony	31/470	500	mg/kg	ND (<0.15)	ND (<0.05)	ND (<0.15)	
Arsenic	0.68 / 3.0	500	mg/kg	25.8	1.92	8.34	
Basium ****	15,000 / 220,000	10,000	mg/kg	1.28	0.907	1,100	
Beryllium	160 / 2,300	75	mg/kg	ND (<0.05)	4,370	927	
Sedmium	71 / 980	100	mg/kg	218	136	237	
Jaloium			mg/kg	18.2	1,080	1.98	
Thromium	120,000 / 1,800,000	500	mg∕kg	87,300	291	5,190	
Cobalt	23 / 350	8,000	mg/kg	6,560	4,670	0.328	
Copper	3,100 / 47,000	2,500	mg/kg	1,100	0.853	0.625	
ron		-	mg/kg	6,960	4,320	4,840	
ead	400 / 800	1,000	mg/kg	0.209	ND (<0.1)	63.1	
Aagnesium		***	mg/kg	1.89	0.84	0.441	
Anganese	1,800 / 26,000		mg/kg	1.45	0.21	0.107	
Aercury	11/46	20	mg/kg	1,110	2,020	ND (<0.05)	
lickel	840 / 12,000	2,000	mg/kg	ND (<0.758)	ND (<0.777)	ND (<7.39)	
otassium			mg/kg	ND (<1)	ND (<0.1)	ND (<0.1)	
elenium	390 / 5,800	100	mg/kg	ND (<0.15)	681	747	
ilver	390 / 5,800	500	mg/kg	2,690	781	ND (<0.5)	
odium			mg/kg	ND (<0.5)	ND (<0.5)	ND (<0.5)	
hallium	0.78 / 12	700	mg/kg	ND (<0.5)	ND (<0.5)	ND (<2.5)	
/anadium	390 / 5,800	2,400	mg/kg	ND (<9.7)	ND (<9.7)	ND (<9.7)	
ine	23,000 / 350,000	5,000	mg/kg	ND (<9.9)	ND (<9.9)	ND (<50)	
TLC Metals / SW846-6010B (T22.11.5.AII)						1301-001	
Aluminum	**		mg/L	143	148	1.24	
Intimony		15	mg/L	1.56	4.96	ND (<0.15)	
arsenic		5	mg/L	0.229	ND (<0.15)	ND (<0.15)	
arium		100	mg/L	3.6	17.9	0.143	
lervilium		0.75	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	
admium		1	mg/L	0.395	0,569	ND (<0.1)	
alcium			mg/L	1.760	1.260	9.82	
Irromium		5	mg/L	0.766	0.302	ND (<0,1)	
obsit	**	80	mg/L	0.335	0.717	ND (<0.1)	
opper		25	mg/L	0.308	0,143	0.205	
no			mg/L	238	94.5	1.78	
cad		5	mg/L	2.94	2.51	0.222	
				329	2.030	8.01	
			ma/l.				
lagnesium			mg/L				
fagnesium fanganese			mg/L	6.35	7.08	0.0608	
fagnesium fangantese lickel		20	mg/L mg/L	6,35 0.844	7.08 0.785	0.0608 0.211	
fagnesium fangoriese lickel otassium		 20 	mg/L mg/L mg/L	6.35 0.844 36.1	7.08 0.785 94.4	0.0608 0.211 7.8	
fagnesium fanganese lickel olassium olenium		 20 1	mg/L mg/L mg/L mg/L	6.35 0.844 36.1 ND (<0.15)	7.08 0.785 94.4 ND (<0.15)	0.0608 0.211 7.8 ND (<0.15)	
fagnesium fanganese ickel otassium olenium ilver		20 1	mg/L mg/L mg/L mg/L mg/L	6.35 0.844 36.1 ND (<0.15) ND (<0.05)	7.08 0.785 94.4 ND (<0.15) ND (<0.05)	0.0608 0.211 7.8 ND (<0.15) ND (<0.05)	
fagnesium fangoriese lickel otassium		 20 1	mg/L mg/L mg/L mg/L	6.35 0.844 36.1 ND (<0.15)	7.08 0.785 94.4 ND (<0.15)	0.0608 0.211 7.8 ND (<0.15)	

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Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Maywood, Los Angeles County, California

Parameters	Regional Screening	Applicable	Field Sample ID:	MWF-Src-Soil-026	MWF-Src-Soil-027 6/23/2016	MWF-Src-Soil-028 6/23/2016
	Level (Residential /	Screening	Sample Date:	6/23/2016		
	Industrial)	Limits (TCLP, STLC, TTLC)	Laboratory Job Number:	16-06-1788	16-06-1788	16-06-1788
TCLP Metals / SW846-6010B (1311)					Halindanna manamana ny manampao amin'ny faritr'i Nordan	
Aluminum	***		mg/L	1.45	1.59	ND (<0.5)
Antimony	**	-	mg/L	0.21	ND (<0.15)	ND (<0.15)
Arsenic		5	mg/L	0.107	ND (<0.1)	ND (<0.1)
Barium		100	mg/L	- 1.01	ND (<1)	ND (<1)
Beryllium	**	-	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)
Cadmium		1	mg/L	0.2	ND (<0.1)	ND (<0.1)
Calcium	**		mg/L	943	216	6.23
Chromium	**	5	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)
Cobali			mg/L	0.123	ND (<0.1)	ND (<0.1)
Copper		-	mg/L	0.284	0.206	0.105
Îron .			mg/L	1.43	ND (<1)	ND (<1)
Lead		5	mg/L	0.461	0.431	ND (<0.1)
Magnesium			mg/L	147	237	3.02
Manganese			mg/L	1.43	0.06	ND (<0.05)
Nickel	**		mg/L	0.159	ND (<0.1)	ND (<0.1)
Potassium			mg/L	15.3	39	ND (<5)
Selenium		1	mg/L	0.161	ND (<0.15)	ND (<0.15)
Silver		5	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)
Thallium		_	mg/L	ND (<0.15)	ND (<0.15)	ND (<0.15)
Vanadium			mp/L	ND (<0.1)	ND (<0.1)	ND (<0.1)
Zinc		-	mg/L	19.2	0.783	1.82
PCBa / SW846-8082		III. III. III. III. III. III. III. III			ACCUSANCE CONTRACTOR C	Committee Commit
Arocior 1016	4,100 / 27,000	_	µд∕кд	-ND (<200)	ND (<1,000)	ND (<200)
Aroclor 1221	200 / 830		µg/kg	ND (<200)	ND (<1,000)	ND (<200)
Arocler 1232	170 / 720	-	μ ρ/ kg	ND (<200)	ND (<1,000)	ND (<200)
Aroclor 1242	230 / 950	-	μ ρ/ kg	ND (<200)	ND (<1,000)	ND (<200)
Aroclor 1248	230 / 950	_	µg/kg	ND (<200)	ND (<1,000)	ND (<200)
Aroclor 1254	240 / 970	-	µg∕kg	ND (<200)	ND (<1,000)	ND (<200)
Arocler 1260	240 / 990	-	µg/kg	ND (<200)	ND (<1,000)	ND (<200)
Aroclor 1262		-	µg/kg	ND (<200)	ND (<1,000)	ND (<200)
Aroclor 1268	_	_	με/κε	ND (<200)	ND (<1,000)	ND (<200)
SVOCs / SW846-8270C	manage = concentration accorded to the	Brown Commonweal	Barrance and the continued control of the control o	mentur manuscratini mentur alkan mentur alkan mentur manuscratini mentur alkan ment		Annual Comment of the
1,2,4-TRICHLOROBENZENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
1,2-DICHLOROBENZENE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
1,3-DICHLOROBENZENE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
1,4-DICHLOROBENZENE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
I-METHYLNAPIITHALENE		-	mg/kg	ND (<10)	ND (<9.8)	2.6
2,4,5-TRICHLOROPHENOL			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
2,4,6-TRICHLOROPHENOL			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
2,4-DICHLOROPHENOL		vo	mp/kg	ND (<10)	ND (<9.8)	ND (<2)
2,4-DIMETHYLPHENOL			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
2,4-DINITROPHENOL			mg/kg	ND (<50)	ND (<49)	ND (<10)
2,4-DINITROTOLUENE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
2,6-DICHLOROPHENOL		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
2.6-DINITROTOLUENE	7		mg/kg	ND (<10)	ND (<9.8)	ND (<2)

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Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Maywood, Los Angeles County, California

	Regional Screening	Applicable	Field Sample 1D:	MWF-Src-Soil-026	MWF-Sre-Soil-027	MWF-Sre-Soll-028
Parameters	Level (Residential /	Screening	Sample Date:	6/23/2016	6/23/2016 16-06-1788	6/23/2016 16-06-1788
	Industrial)	Limits (TCLP, STLC, TTLC)	Laboratory Job Number:	16-06-1788		
-CHLORONAPHTHALENE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-CHLOROPHENOL		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-METHYLNAPHTHALENE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-METHYLPHENOL		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-NITROANILINE		_	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-NITROPHENOL		_	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
,3'-DICHLOROBENZIDINE			mg/kg	ND (<200)	ND (<200)	ND (<40)
4-METHYLPHENOL		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-NITROANILINE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
.6-DINITRO-2-METHYLPHENOL		-	mg/kg	ND (<50)	ND (<49)	ND (<10)
BROMOPIENYL-PHENYLETHER			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-CHLORO-3-METHYLPHENOL			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
CHLOROANILINE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
CHLOROPHENYL-PHENYLETHER			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-NITROANILINE		,	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
-NITROPHENOL			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
CENAPITHENE		_	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
CENAPITHYLENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
NILINE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
NTHRACENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ZOBENZENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ENZIDINE		-	mg/kg	ND (<200)	ND (<200)	ND (<40)
ENZO(A)ANTHRACENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ENZO(A)PYRENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ENZO(B)FLUORANTHENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ENZO(G,H,DPERYLENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ENZO(K)FLUORANTHENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ENZOIC ACID	250,000 / 3,300,000		mg/kg	ND (<50)	ND (<49)	51
ENZYL ALCOHOL	250,00073,500,000		mg/kg	ND (<10)	ND (<9.8)	ND (<2)
IS(2-CHLOROETHOXY)METHANE				ND (<10)	ND (<9.8)	ND (<2)
is(2-chloroethyl)ether			mg/kg	ND (<50)	ND (<49)	ND (<2) ND (<10)
IS(2-CHLOROISOPROPYL)ETHER			mg/kg mg/kg	ND (<10)	ND (<9.8)	
IS(2-ETHYLHEXYL)PHTHALATE				39	73	ND (<2)
utylbenzylphthalate			mg/kg	ND (<10)		110
HRYSENE			mg/kg		ND (<9.8)	ND (<2)
IBENZ(A,II)ANTHRACENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
IBENZOFURAN			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
iethylphthalate			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
imethylphthalate			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
I-N-BUTYL PHTHALATE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
I-N-OCTYL PHIHALATE			mg/kg	13	ND (<9.8)	ND (<2)
LUORANTHENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
LUORANTHENE	4 700 470 600		mg/kg	ND (<10)	ND (<9.8)	ND (<2)
	4,700 / 70,000		mg/kg	ND (<10)	ND (<9.8)	ND (<2)
EXACHLOROBENZENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
EXACHLOROBUTADIENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
EXACHILOROCYCLOPENTADIENE		_	mg/kg	ND (<50)	ND (<49)	ND (<10)

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Table 8 Split Sample Analytical Results Fruitland Magnesium Fire Maywood, Los Angeles County, California

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	Regional Screening Level (Residential /	Applicable Screening Limits (TCLP, STLC, TTLC)	Field Sample ID:	MWF-Src-Soil-026	MWF-Src-Sail-027	MWF-Sre-Soil-028 6/23/2016
Parameters			Sample Date:	6/23/2016	6/23/2016	
Parameters	ladustrial)		Laboratory Job Number:	16-06-1788	16-06-1788	16-06-1788
HEXACHLOROETHANE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
INDENO(1,2,3-CD)PYRENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
ISOPHORONE		-	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
NAPHTHALENE			mg/kg	ND (<10)	ND (<9.8)	5.7
NITROBENZENE		-	mg/kg	ND (<50)	ND (<49)	ND (<10)
N-NITROSODIMETHYLAMINE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
N-NITROSO-DI-N-PROPYLAMINE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
N-NITROSODIPHENYLAMINE	1	_	mg/kg	ND (<10)	ND (<9.8)	ND (<2)
PENTACHLOROPHENOL			mp/kg	ND (<50)	ND (<49)	ND (<10)
PHENANTHRENE		_	mg/kg	ND (<10)	ND (<9.8)	2.4
PHENOL	19,000 / 250,000	_	mg/kg	ND (<10)	ND (<9,8)	10
PYRENE			mg/kg	ND (<10)	ND (<9.8)	ND (<2)
PYRIDINE		_	mg/kg	- ND (<10)	ND (<9.8)	ND (<2)
Dioxins / Furans / SW8-46-8290A		<u> </u>			1	
1,2,3,4,6,7,8-Heptachlorodibenzofuran		-	ng/kg	174	555	1,280
1,2,3,4,6,7,8-Hentachlorodibenzo-p-dioxin			ng/kg	71.1	536	1,520
1,2,3,4,7,8,9-Heptachlorodibenzofuran		-	ng/kg	47,3	126	110
1,2,3,4,7,8-Hexachlorodibenzofuran			ng/kg	74.7	202	154
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin		-	ng/kg	ND (<4.91)	30,6	26.9
1,2,3,6,7,8-Hexachlorodibenzofuran			ng/kg	91.1	235	137
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin			ng/kg	8,99	61.8	70,3
1,2,3,7,8,9-Hexachlorodibenzofuran			ng/kg	34.8	93.3	45.8
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin			ng/kg	6.66	47.4	50.2
1,2,3,7,8-Pentachlorodibenzofuran		_	ng/kg	84.8	240	57.1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin			ng/kg	6.04	37.4	19
2,3,4,6,7,8-Hexachlorodibenzofuran		-	ng∕kg	78.2	208	163
2,3,4,7,8-Pentachlorodibenzofuran		-	ng/kg	120	273	94.9
2,3,7,8-Tetrachlorodibenzofuran		_	ng/kg	42.1	157	30.5
2,3,7,8-Tetrachlorodibenzo-p-dioxin			ng/kg	1.56	8.22	3,84
Octachlorodibenzofuran (OCDF)		-	ng/kg	100	486	1,640
Octachlorodibenzo-p-dioxin (OCDD)			ng/kg	. 317	1,860	8970 J

Notes:

Bold results exceed applicable limits for characteristic hazardous wastes

ND (<X) = constituents(s) not detected at or above method detection limit

mg/kg = milligram per kilogram

mg/kg = nanogram per kilogram

mg/kg = Estimated Maximum Possible Concentration

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Attachment C: Request for a Time Critical Removal Action the Fruitland Magnesium Fire Site, July 1, 2016